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TITLE : PRODUCTION OF BIODEGRADABLE POLYURETHANE-BASED FOAM

ABSTRACT : PURPOSE: To obtain the subject foam mixable with biodegradable powder without liquefying, not dropping the powder, having a high biodegradation rate by using a monosaccharide as biodegradable powder.

CONSTITUTION: (A) A polyol component (e.g. polyhydric alcohol or polyester polyol) is reacted with (B) a polyisocyanate component (e.g. tolylene diisocyanate or diphenylmethane diisocyanate) in the presence of (C) 15-150 pts.wt. monosaccharide (e.g. D-glucose or D-fructose) based on 100 pts.wt. component A under an expanding condition to give the objective foam. The component C is usually mixed with the component A. Expansion is carried out by using a blowing agent such as water or CO₂. When another biodegradable substance is used together with the component C, preferably the amount of the component C is ≥ 15 pts.wt. based on 100 pts.wt. component A and the total amounts of the component C and another biodegradable substance is ≤ 150 pts.wt.

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